6 EPODOC / EPO

- PN EP0085600 A 19830810
- PD 1983-08-10
- PR FR19820001454 19820129
- OPD 1982-01-29
- Device for the correction of intermodulation produced by an amplifier for high-frequency signals with peak value regulation.
- This device for correcting intermodulation produced by an amplifier (1) of high-frequency signals, with complex non-linearity coefficients, comprises means (2) for producing corrective lines in order to produce, from the high-frequency signal to be amplified, an input signal for the amplifier (1), the spectrum of which comprises, apart from the high-frequency lines of the signal to be amplified, first high-frequency corrective lines, of adjustable amplitude, at the frequencies of the odd-numbered intermodulation products, and second high-frequency corrective lines, of adjustable amplitude, at the frequencies of the odd-numbered intermodulation products, and phase-shifted by pi /2 relative to the first corrective lines, the product of the transfer functions of the means (2) for producing corrective lines and of the amplifier (1) not necessarily giving a linear transfer function.

Application to HF transmitters.

<IMAGE>

- IN GAUDIN DANIEL
- PA THOMSON CSF (FR)
- EC H03F1/32P; H03F1/32P6
- IC H03F1/32
- CT DE2306294 A1 [Y]; EP0067091 A1 [E]; AU483960 B [A]
- CTNP [Y] IEEE TRANSACTIONS ON COMMUNICATIONS, vol. COM-24, no. 10, octobre 1976, pages 1139-1143, New York, USA;
 - [A] PROCEEDINGS OF THE IEEE, vol. 59, no. 2, février 1971, pages 230-238, New York, USA;
 - [A] PROCEEDINGS OF THE CONFERENCE ON EARTH STATION TECHNOLOGY, 14-16 octobre 1970, pages 274-279, Londres, G.B.
- Peak level regulated HF amplifier intermodulation corrector produces spectral lines at odd and even intermodulation product frequencies
- PR FR19820001454 19820129
- PN EP0085600 A 19830810 DW198333 Frn 022pp
 - FR2520957 A 19830805 DW198336 000pp
 - JP58134517 A 19830810 DW198338 000pp
- PA (CSFC) THOMSON CSF
- IC H03F1/32 ;H04J1/02 ;H04L27/00
- IN EM; GAUDIN D
- EP--85600 An input signal envelope detector (3) of e.g. precision-rectifier type precedes two squaring stages (5,6) driving adjustable-gain linear amplifiers (7,8;11,12) whose outputs are added in pairs (9,13). One (13) of the sums is applied to a phase modulator (14) of the original input (e). The modulated signal (e') is mixed (10) with the other sum (9) modified by a constant amt. (k) which is a function of the desired operating point.

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- The spectrum of the resultant input to the nonlinear amplifier (1) includes first corrective lines of adjustable amplitude at the frequencies of odd intermodulation products, and second corrective lines of adjustable amplitude at the frequencies of even intermodulation products but offset by 90 deg. from the first lines. The product of the transfer functions of the corrector (2) and amplifier (1) is not necessarily linear.(1a/8)

OPD - 1982-01-29

CT - 2.Jnl.Ref;DE2306294;EP0067091

DS - CH DE GB IT LI NL AN - 1983-736662 [33]